#### DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

which (check) is attached hereto.

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

### METHOD AND APPARATUS FOR DETERMINING A LOSS OF SIGNAL CONDITION

| and is amended by the Prelin     | ninary Amendment attached hereto.                     |
|----------------------------------|---|
| was filed on                     | as Application Serial No.                             |
| and was amended on               | (if applicable).                                      |
| hat I have reviewed and understa | nd the contents of the above identified specification |

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

|                | Priority Claimed |                      |     |    |
|----------------|------------------|----------------------|-----|----|
| Number Country |                  | Day/Month/Year Filed | Yes | No |
| N/A            |                  |                      |     |    |

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

| Provisional Application Number |            | Filing Date  |  |
|--------------------------------|------------|--------------|--|
| Г                              | 60/302.912 | July 3, 2001 |  |

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

| Application Serial No. | Filing Date | Status (patented, pending, abandoned) |
|------------------------|-------------|---------------------------------------|
| N/A                    |             |                                       |

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Mark Zagorin (36,067); Andrew C. Graham (36,531); and David W. O'Brien (40,107).

Full name of cole (or first joint) inventor:

Please direct all correspondence concerning this application to the USPTO Customer Number, if provided, or otherwise to the individual and/or firm named below:

Customer Number 22120

ZAGORIN, O'BRIEN & GRAHAM, L.L.P.
401 WEST 15<sup>TH</sup> STREET, SUITE 870
AUSTIN. TX 78701

Telephone: (512) 347-9030 Facsimile: (512) 347-9031 USPTO Customer Number

22120
PATENT TRADEMARK OFFICE

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Philip David Steiner

| run name of sole (or first joi                              | in) inventor. I minp David Blemer                                  |                       |                          |
|---|--|-----------------------|--------------------------|
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Canada<br>2485 Nantel Street<br>Montreal, Quebec H4M 1K4<br>Canada | Date:<br>Citizenship: | Sept. 12, 2001<br>Canada |
| Full name of second joint in                                | ventor: Michael H. Perrott   |                       |                          |
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Cambridge, MA<br>182 3rd Street<br>Cambridge, MA 02141             | Date:<br>Citizenship: | USA                      |
| Full name of third joint inve                               | ntor: Vadim Gutnik   |                       |                          |
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Austin, TX<br>4201 Monterey Oaks Blvd, #2410<br>Austin, TX 78749   | Date:<br>Citizenship: | USA                      |

#### DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

# METHOD AND APPARATUS FOR DETERMINING A LOSS OF SIGNAL CONDITION

| is attached hereto.               |                           |
|-----------------------------------|---------------------------|
| and is amended by the Preliminary |                           |
| was filed on                      | as Application Serial No. |
| and was amended on                | (if applicable).          |
|                                   | was filed on              |

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations,  $\S$  1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

| Prior Foreign Application(s)        |  |  | Priority Claimed |    |
|-------------------------------------|--|--|------------------|----|
| Number Country Day/Month/Year Filed |  |  | Yes              | No |
| N/A                                 |  |  |                  |    |

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

| Provisional Application Number | Filing Date  |  |
|--------------------------------|--------------|--|
| 60/302.912                     | July 3, 2001 |  |

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

| Application Serial No. | Filing Date | Status (patented, pending, abandoned) |
|------------------------|-------------|---------------------------------------|
| N/A                    |             |                                       |

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Mark Zagorin (36,067); Andrew C. Graham (36,531); and David W. O'Brien (40,107).

Full name of sole (or first joint) inventor:

Please direct all correspondence concerning this application to the USPTO Customer Number, if provided, or otherwise to the individual and/or firm named below:

Customer Number 22120

ZAGORIN, O'BRIEN & GRAHAM, L.L.P.
401 WEST 15<sup>TH</sup> STREET, SUITE 870

AUSTIN, TX 78701

Telephone: (512) 347-9030 Facsimile: (512) 347-9031 USPTO Customer Number —

22120
PATENT TRADEMARK OFFICE

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Philip David Steiner

| Inventor's Signature:<br>Residence:<br>Post Office Address: | <del></del>  | Date: Citizenship:    | Canada |
|---|--|-----------------------|--------|
| Full name of second joint in                                | ventor: Michael H. Perrott                                       |                       |        |
|   | Cambridge, MA<br>182 3rd Street<br>Cambridge, MA 02141           | Date:<br>Citizenship: |        |
| Full name of third joint inve                               | ntor: Vadim Gutnik   |                       |        |
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Austin, TX<br>4201 Monterey Oaks Blvd, #2410<br>Austin, TX 78749 | Date:<br>Citizenship: | USA    |

### DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

# METHOD AND APPARATUS FOR DETERMINING A LOSS OF SIGNAL CONDITION

| vhich (check) | is attached hereto.               |                           |
|---------------|-----------------------------------|---------------------------|
| , ,           | and is amended by the Preliminary |                           |
|               |                                   | as Application Serial No. |
|               | and was amended on                | (if applicable).          |
|               |                                   |                           |

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

| Prior Foreign Application(s)        |  |  | Priority Claimed |    |
|-------------------------------------|--|--|------------------|----|
| Number Country Day/Month/Year Filed |  |  | Yes              | No |
| N/A                                 |  |  |                  |    |

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

| Provisional Application Number | Filing Date  |
|--------------------------------|--------------|
| 60/302 912                     | July 3, 2001 |

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

| Application Serial No. | Filing Date | Status (patented, pending, abandoned) |
|------------------------|-------------|---------------------------------------|
| N/A                    |             |                                       |

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Mark Zagorin (36,067); Andrew C. Graham (36,531); and David W. O'Brien (40,107).

Full name of sole (or first joint) inventor:

Please direct all correspondence concerning this application to the USPTO Customer Number, if provided, or otherwise to the individual and/or firm named below:

Customer Number 22120 **ZAGORIN, O'BRIEN & GRAHAM, L.L.P.**401 WEST 15<sup>TH</sup> STREET, SUITE 870

AUSTIN, TX 78701

Telephone: (512) 347-9030 Facsimile: (512) 347-9031 USPTO Customer Number

22120
PATENT TRADEMARK OFFICE

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Philip David Steiner

|   | · -  |                       |          |
|---|--|-----------------------|----------|
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Canada<br>2485 Nantel Street<br>Montreal, Quebec H4M 1K4<br>Canada | Date:<br>Citizenship: | Canada   |
| Full name of second joint in                                | ventor: Michael H. Perrott   |                       |          |
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Cambridge, MA<br>182 3rd Street<br>Cambridge, MA 02141             | Date: Citizenship:    | USA      |
| Full name of third joint inve                               | ntor: Vadim Gutnik   |                       | 0/ /     |
| Inventor's Signature:<br>Residence:<br>Post Office Address: | Austin, TX<br>4201 Monterey Oaks Blvd, #2410<br>Austin, TX 78749   | Date:<br>Citizenship: | <u> </u> |